For Paul Schulwitz

Access DB# <u>//4/69</u>

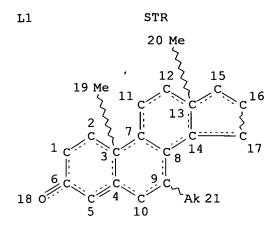
SEARCH REQUEST FORM

Scientific and Technical Information Center

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Requester's Full Name: Art Unit:/	Sobeha Qoz e Number 30 206 ion: 4 C 70 R	2 Examiner # : 子 4 / 9 シンシ Serial Number: の esults Format Preferred (circle	
If more than one search is sub	mitted, please priori	itize searches in order of	need.
Please provide a detailed statement of the Include the elected species or structures utility of the invention. Define any territory. Please attach a copy of the covered to	s, keywords, synonyms, aci	ronyms, and registry numbers, and	combine with the
Title of Invention: New 7	20,17 d	bis alkylated	(testoslesone
Inventors (please provide full names)	Clave,	Arwed et -	l.
Earliest Priority Filing Date: /	2/23/98	PET/EP97	110355
For Sequence Searches Only Please inc appropriate serial number.	lude all pertinent information	n (parent, child, divisional, or issued	patent numbers) along with the
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TAFF USE ONLY	Type of Search	*********	*****
archer: Schwlwitz	NA Sequence (#)	Vendors and cost who	ere applicable
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ite Searcher Picked Up:	Bibliographic	Dr.Link	
te Completed: 2/19	Litigation	Lexis/Nexis	
archer Prep & Review Time:	Fulltext	Sequence Systems	
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line Time:	Other	01-6-6	

PTO-1590 (8-01)



NODE ATTRIBUTES:
DEFAULT MLEVEL IS ATOM
DEFAULT ECLEVEL IS LIMITED
ECOUNT IS M6 C AT 21

GRAPH ATTRIBUTES:

BING(S) ARE ISOLATE

RING(S) ARE ISOLATED OR EMBEDDED

NUMBER OF NODES IS 21

STEREO ATTRIBUTES: NONE

L3 154 SEA FILE=REGISTRY SSS FUL L1

L4 9 SEA FILE=HCAPLUS ABB=ON PLU=ON L3

=> d 14 ibib ab hitstr 1-9

L4 ANSWER 1 OF 9 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

2000:442168 HCAPLUS

DOCUMENT NUMBER:

133:74180

TITLE:

Preparation of new testosterone derivatives and their

use in the long-term therapy of androgen-dependent

illnesses

INVENTOR(S):

Cleve, Arwed; Sauer, Gerhard; Huwe, Christoph;

Parczyk, Karsten; Hoffmann, Jens; Schneider, Martin

PATENT ASSIGNEE(S):

SOURCE:

Schering A.-G., Germany Ger. Offen., 41 pp.

CODEN: GWXXBX

DOCUMENT TYPE:

Patent

LANGUAGE:

German

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PAT	ENT	NO.		KI	ND	DATE			A)	PPLI	CATI	ON NO	o	DATE			
DE	1986	0719		Α	1	2000	0629		DI	E 19	98-1	98601	719	1998	1223		
WO 2000039148 A1			1	20000706			WO 1999-EP10355				55	19991223					
	W:	ΑE,	AL,	AM,	AT,	ΑU,	ΑZ,	BA,	BB,	BG,	BR,	BY,	CA,	CH,	CN,	CR,	CU,
		CZ,	DK,	DM,	EE,	ES,	FI,	GB,	GD,	GE,	GH,	GM,	HR,	HU,	ID,	IL,	IN,
		IS,	JP,	ΚE,	KG,	KP,	KR,	ΚZ,	LC,	LK,	LR,	LS,	LT,	LU,	LV,	MA,	MD,
		MG,	MK,	MN,	MW,	MΧ,	NO,	NZ,	PL,	PT,	RO,	RU,	SD,	SE,	SG,	SI,	SK,

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SL, TJ, TM, TR, TT, TZ, UA, UG, US, UZ, VN, YU, ZA, ZW, AM, AZ,
             BY, KG, KZ, MD, RU, TJ, TM
         RW: GH, GM, KE, LS, MW, SD, SL, SZ, TZ, UG, ZW, AT, BE, CH, CY, DE,
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                            20011010
     EP 1140972
                       A1
                                           EP 1999-967003 19991223
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                            20030305
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             IE, SI, LT, LV, FI, RO
                                           JP 2000-591059
                                                            19991223
     JP 2002533471
                       Т2
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                                                             19991223
     NO 2001003168
                            20010622
                                           NO 2001-3168
                                                             20010622
                       Α
PRIORITY APPLN. INFO.:
                                        DE 1998-19860719 A
                                                            19981223
                                        WO 1999-EP10355 W 19991223
                         MARPAT 133:74180
OTHER SOURCE(S):
     The available invention concerns new 7.alpha., 17.alpha., 17.beta.-
     substituted testosterone derivs. I [A = C6-13-alkylene; B = O, S(O)p, NY,
     NYCO, NYSO2, OSO2, OSiMe2, SCO, connection between A and CC; p = 0, 1, 2;
     Y = H, C1-8-alkyl, or together with CC a connection between A and CD, CC a
     connection between B and CD, or together with B a connection between A and
     CD, C1-6-alkyl, (un) substituted phenylene, vinyl, C1-4-alkoxy;
     C1-4-alkoxycarbonyl, bis(C1-4-alkoxycarbonyl)methyl] and their use as pure
     anti-androgens in the long-term therapy of androgen-dependent illnesses,
     in particular for the long-term anti-androgen therapy of the prostate
     carcinomas. Thus, antiandrogen II was prepd. from 17.alpha.-methyl-3-
     oxoandrosta-4,6-dien-17.beta.-yl acetate (III). II was tested for
     antiproliferation activity against against human prostate carcinoma LNCaP
     [IC50 = 40 \text{ nM}].
IT
     278603-67-1P 278603-68-2P 278603-72-8P
     278603-92-2P 278603-97-7P 278604-10-7P
     278604-11-8P 278604-12-9P 278604-20-9P
     278604-21-0P 278604-22-1P 278604-23-2P
     278604-24-3P 278604-25-4P 278604-26-5P
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     278604-66-3P 278604-79-8P 278604-80-1P
     278605-00-8P 278605-02-0P 278605-05-3P
     278605-09-7P
     RL: BAC (Biological activity or effector, except adverse); BSU (Biological
     study, unclassified); RCT (Reactant); SPN (Synthetic preparation); THU
     (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT
     (Reactant or reagent); USES (Uses)
        (prepn. of new testosterone derivs. and their use in the long-term
        therapy of androgen-dependent illnesses)
RN
     278603-67-1 HCAPLUS
     Pregn-4-en-3-one, 7-(8-chlorooctyl)-20,20,21,21,21-pentafluoro-17-hydroxy-
CN
     , (7.alpha., 17.alpha.) - (9CI) (CA INDEX NAME)
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RN 278603-68-2 HCAPLUS

CN Pregn-4-en-3-one, 20,20,21,21,21-pentafluoro-17-hydroxy-7-(8-iodooctyl)-, (7.alpha.,17.alpha.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 278603-72-8 HCAPLUS

CN Pregn-4-en-3-one, 20,20,21,21,21-pentafluoro-17-hydroxy-7-[8-(phenylthio)octyl]-, (7.alpha.,17.alpha.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 278603-92-2 HCAPLUS

CN Pregn-4-en-3-one, 20,20,21,21,21-pentafluoro-17-hydroxy-7-[10-(phenylthio)decyl]-, (7.alpha.,17.alpha.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 278603-97-7 HCAPLUS

CN Pregn-4-en-3-one, 20,20,21,21,21-pentafluoro-17-hydroxy-7-(13-iodotridecyl)-, (7.alpha.,17.alpha.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 278604-10-7 HCAPLUS

CN Pregn-4-en-3-one, 20,20,21,21,21-pentafluoro-17-hydroxy-7-(6-hydroxyhexyl)-, (7.alpha.,17.alpha.)- (9CI) (CA INDEX NAME)

RN 278604-11-8 HCAPLUS

CN Pregn-4-en-3-one, 20,20,21,21,21-pentafluoro-17-hydroxy-7-[6-[[(4-methylphenyl)sulfonyl]oxy]hexyl]-, (7.alpha.,17.alpha.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 278604-12-9 HCAPLUS

CN Pregn-4-en-3-one, 20,20,21,21,21-pentafluoro-17-hydroxy-7-(6-iodohexyl)-, (7.alpha.,17.alpha.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 278604-20-9 HCAPLUS

CN Androst-4-en-3-one, 17-(acetyloxy)-7-[9-[[(1,1-dimethylethyl)dimethylsilyl]oxy]nonyl]-17-methyl-, (7.alpha.,17.beta.)-(9CI) (CA INDEX NAME)

RN 278604-21-0 HCAPLUS

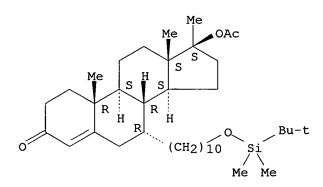
CN Androst-4-en-3-one, 17-(acetyloxy)-7-[7-[[(1,1-dimethylethyl)dimethylsilyl]oxy]heptyl]-17-methyl-, (7.alpha.,17.beta.)-(9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 278604-22-1 HCAPLUS

CN Androst-4-en-3-one, 17-(acetyloxy)-7-[10-[[(1,1-dimethylethyl)dimethylsilyl]oxy]decyl]-17-methyl-, (7.alpha.,17.beta.)-(9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 278604-23-2 HCAPLUS

CN Androst-4-en-3-one, 17-(acetyloxy)-7-[11-[[(1,1-dimethylethyl)dimethylsilyl]oxy]undecyl]-17-methyl-, (7.alpha.,17.beta.)-(9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 278604-24-3 HCAPLUS

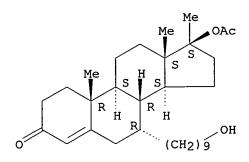
CN Androst-4-en-3-one, 17-(acetyloxy)-7-[7-(4-chlorobutoxy)heptyl]-17-methyl-, (7.alpha.,17.beta.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 278604-25-4 HCAPLUS

CN Androst-4-en-3-one, 17-(acetyloxy)-7-(9-hydroxynonyl)-17-methyl-, (7.alpha., 17.beta.)- (9CI) (CA INDEX NAME)

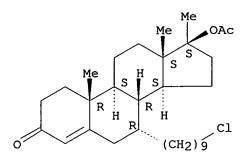
Absolute stereochemistry.



RN 278604-26-5 HCAPLUS

CN Androst-4-en-3-one, 17-(acetyloxy)-7-(9-chlorononyl)-17-methyl-, (7.alpha., 17.beta.)- (9CI) (CA INDEX NAME)

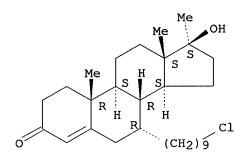
Absolute stereochemistry.



RN 278604-27-6 HCAPLUS

CN Androst-4-en-3-one, 7-(9-chlorononyl)-17-hydroxy-17-methyl-, (7.alpha.,17.beta.)- (9CI) (CA INDEX NAME)

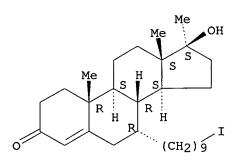
Absolute stereochemistry.



RN 278604-28-7 HCAPLUS

CN Androst-4-en-3-one, 17-hydroxy-7-(9-iodononyl)-17-methyl-, (7.alpha.,17.beta.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 278604-30-1 HCAPLUS

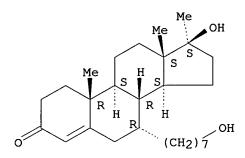
CN Androst-4-en-3-one, 17-(acetyloxy)-7-(7-hydroxyheptyl)-17-methyl-, (7.alpha., 17.beta.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 278604-31-2 HCAPLUS

CN Androst-4-en-3-one, 17-hydroxy-7-(7-hydroxyheptyl)-17-methyl-, (7.alpha., 17.beta.)- (9CI) (CA INDEX NAME)

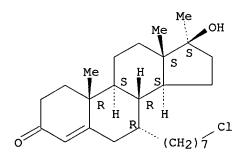
Absolute stereochemistry.



RN 278604-32-3 HCAPLUS

CN Androst-4-en-3-one, 7-(7-chloroheptyl)-17-hydroxy-17-methyl-, (7.alpha., 17.beta.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 278604-33-4 HCAPLUS

CN Androst-4-en-3-one, 17-hydroxy-7-(7-iodoheptyl)-17-methyl-, (7.alpha., 17.beta.)- (9CI) (CA INDEX NAME)

RN 278604-35-6 HCAPLUS

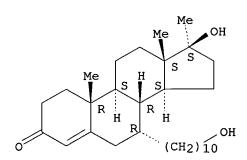
CN Androst-4-en-3-one, 17-(acetyloxy)-7-(10-hydroxydecyl)-17-methyl-, (7.alpha., 17.beta.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 278604-36-7 HCAPLUS

CN Androst-4-en-3-one, 17-hydroxy-7-(10-hydroxydecyl)-17-methyl-, (7.alpha.,17.beta.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



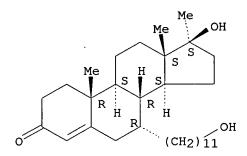
RN 278604-38-9 HCAPLUS

CN Androst-4-en-3-one, 17-(acetyloxy)-7-(11-hydroxyundecyl)-17-methyl-, (7.alpha., 17.beta.)- (9CI) (CA INDEX NAME)

RN 278604-39-0 HCAPLUS

CN Androst-4-en-3-one, 17-hydroxy-7-(11-hydroxyundecyl)-17-methyl-, (7.alpha., 17.beta.)- (9CI) (CA INDEX NAME)

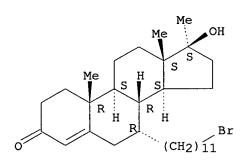
Absolute stereochemistry.



RN 278604-40-3 HCAPLUS

CN Androst-4-en-3-one, 7-(11-bromoundecyl)-17-hydroxy-17-methyl-, (7.alpha.,17.beta.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 278604-41-4 HCAPLUS

CN Androst-4-en-3-one, 7-[7-(4-chlorobutoxy)heptyl]-17-hydroxy-17-methyl-, (7.alpha., 17.beta.) - (9CI) (CA INDEX NAME)

RN 278604-42-5 HCAPLUS

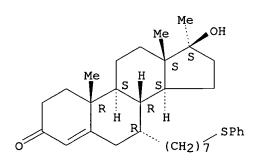
CN Androst-4-en-3-one, 17-hydroxy-7-[7-(4-iodobutoxy)heptyl]-17-methyl-, (7.alpha., 17.beta.) - (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 278604-43-6 HCAPLUS

CN Androst-4-en-3-one, 17-hydroxy-17-methyl-7-[7-(phenylthio)heptyl]-, (7.alpha.,17.beta.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 278604-46-9 HCAPLUS

CN Androst-4-en-3-one, 7-[9-(acetylthio)nonyl]-17-hydroxy-17-methyl-, (7.alpha., 17.beta.) - (9CI) (CA INDEX NAME)

RN 278604-52-7 HCAPLUS

Absolute stereochemistry.

RN 278604-57-2 HCAPLUS

CN Androst-4-en-3-one, 17-hydroxy-17-methyl-7-[7-[(4,4,5,5,5-pentafluoropentyl)thio]heptyl]-, (7.alpha.,17.beta.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 278604-60-7 HCAPLUS

CN Androst-4-ene-7-octanenitrile, 17-hydroxy-17-methyl-3-oxo-, (7.alpha., 17.beta.) - (9CI) (CA INDEX NAME)

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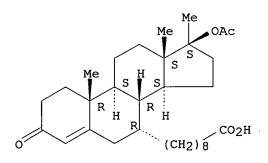
CN Androst-4-en-3-one, 17-hydroxy-17-methyl-7-[11-[(4,4,5,5,5-pentafluoropentyl)thio]undecyl]-, (7.alpha.,17.beta.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 278604-79-8 HCAPLUS

CN Androst-4-ene-7-nonanoic acid, 17-(acetyloxy)-17-methyl-3-oxo-, (7.alpha., 17.beta.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 278604-80-1 HCAPLUS

CN Androst-4-ene-7-nonanamide, 17-(acetyloxy)-N-butyl-N,17-dimethyl-3-oxo-, (7.alpha.,17.beta.)- (9CI) (CA INDEX NAME)

RN 278605-00-8 HCAPLUS

CN Androst-4-en-3-one, 17-hydroxy-7-[9-[(5-hydroxypentyl)thio]nonyl]-17-methyl-, (7.alpha.,17.beta.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 278605-02-0 HCAPLUS

CN Pregn-4-en-3-one, 7-(10-bromodecyl)-20,20,21,21,21-pentafluoro-17-hydroxy-, (7.alpha.,17.alpha.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 278605-05-3 HCAPLUS

CN Pregn-4-en-3-one, 7-(13-chlorotridecyl)-20,20,21,21,21-pentafluoro-17-hydroxy-, (7.alpha.,17.alpha.)- (9CI) (CA INDEX NAME)

RN 278605-09-7 HCAPLUS

CN Pregn-4-en-3-one, 7-[6-(acetyloxy)hexyl]-20,20,21,21,21-pentafluoro-17-hydroxy-, (7.alpha.,17.alpha.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

278603-70-6P 278603-74-0P 278603-75-1P ΙT 278603-76-2P 278603-77-3P 278603-79-5P 278603-81-9P 278603-82-0P 278603-83-1P 278603-84-2P 278603-85-3P 278603-86-4P 278603-88-6P 278603-89-7P 278603-94-4P 278603-98-8P 278604-00-5P 278604-01-6P 278604-02-7P 278604-03-8P 278604-04-9P 278604-05-0P 278604-06-1P 278604-07-2P 278604-08-3P 278604-13-0P 278604-14-1P 278604-15-2P 278604-16-3P 278604-17-4P 278604-18-5P 278604-19-6P 278604-29-8P 278604-34-5P 278604-37-8P 278604-44-7P 278604-45-8P 278604-47-0P 278604-48-1P 278604-49-2P 278604-50-5P 278604-51-6P 278604-53-8P 278604-54-9P 278604-55-0P 278604-56-1P 278604-58-3P 278604-59-4P 278604-61-8P 278604-62-9P 278604-63-0P 278604-64-1P 278604-65-2P 278604-67-4P 278604-68-5P 278604-69-6P 278604-70-9P 278604-71-0P 278604-72-1P 278604-73-2P 278604-74-3P 278604-75-4P 278604-76-5P 278604-77-6P 278604-78-7P 278604-81-2P 278604-82-3P 278604-83-4P 278604-84-5P 278604-85-6P 278604-86-7P 278604-87-8P 278604-88-9P 278604-89-0P 278604-90-3P 278604-91-4P 278604-92-5P 278604-93-6P 278604-94-7P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses)

(prepn. of new testosterone derivs. and their use in the long-term therapy of androgen-dependent illnesses)

RN 278603-70-6 HCAPLUS

CN Pregn-4-ene-7-nonanenitrile, 20,20,21,21,21-pentafluoro-17-hydroxy-3-oxo-, (7.alpha.,17.alpha.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 278603-74-0 HCAPLUS

CN Pregn-4-en-3-one, 20,20,21,21,21-pentafluoro-17-hydroxy-7-[8-(phenylsulfinyl)octyl]-, (7.alpha.,17.alpha.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 278603-75-1 HCAPLUS

CN Pregn-4-en-3-one, 7-[8-[(2-chlorophenyl)thio]octyl]-20,20,21,21,21-pentafluoro-17-hydroxy-, (7.alpha.,17.alpha.)- (9CI) (CA INDEX NAME)

RN 278603-76-2 HCAPLUS

CN Pregn-4-en-3-one, 20,20,21,21,21-pentafluoro-17-hydroxy-7-[8-(2-pyridinylthio)octyl]-, (7.alpha.,17.alpha.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 278603-77-3 HCAPLUS

CN Pregn-4-en-3-one, 20,20,21,21,21-pentafluoro-17-hydroxy-7-[8-(2-pyrimidinylthio)octyl]-, (7.alpha.,17.alpha.)- (9CI) (CA INDEX NAME)

RN 278603-79-5 HCAPLUS

CN Pregn-4-en-3-one, 7-[8-(2-benzothiazolylthio)octyl]-20,20,21,21,21-pentafluoro-17-hydroxy-, (7.alpha.,17.alpha.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 278603-81-9 HCAPLUS

CN Pregn-4-en-3-one, 7-[8-[(6-ethoxy-2-benzothiazolyl)thio]octyl]20,20,21,21,21-pentafluoro-17-hydroxy-, (7.alpha.,17.alpha.)- (9CI) (CA
INDEX NAME)

RN 278603-82-0 HCAPLUS

CN Pregn-4-en-3-one, 20,20,21,21,21-pentafluoro-17-hydroxy-7-[8-(2-thiazolylthio)octyl]-, (7.alpha.,17.alpha.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 278603-83-1 HCAPLUS

CN Pregn-4-en-3-one, 20,20,21,21,21-pentafluoro-17-hydroxy-7-[8-[(1-methyl-1H-imidazol-2-yl)thio]octyl]-, (7.alpha.,17.alpha.)- (9CI) (CA INDEX NAME)

RN 278603-84-2 HCAPLUS

CN Pregn-4-en-3-one, 20,20,21,21,21-pentafluoro-17-hydroxy-7-[8-[(5-methyl-1,3,4-thiadiazol-2-yl)thio]octyl]-, (7.alpha.,17.alpha.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 278603-85-3 HCAPLUS

CN Pregn-4-en-3-one, 20,20,21,21,21-pentafluoro-17-hydroxy-7-[8-(2-thienylthio)octyl]-, (7.alpha.,17.alpha.)- (9CI) (CA INDEX NAME)

RN 278603-86-4 HCAPLUS

CN Butanamide, 2,2,3,3,4,4,4-heptafluoro-N-[8-[(7.alpha.,17.alpha.)-20,20,21,21,21-pentafluoro-17-hydroxy-3-oxopregn-4-en-7-yl]octyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 278603-88-6 HCAPLUS

CN Pregn-4-en-3-one, 20,20,21,21,21-pentafluoro-17-hydroxy-7-[8-[(4-methylphenyl)sulfonyl]octyl]-, (7.alpha.,17.alpha.)- (9CI) (CA INDEX NAME)

RN 278603-89-7 HCAPLUS

CN Pregn-4-en-3-one, 20,20,21,21,21-pentafluoro-17-hydroxy-7-[8-[(3-methylphenyl)sulfonyl]octyl]-, (7.alpha.,17.alpha.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 278603-94-4 HCAPLUS

CN Pregn-4-en-3-one, 20,20,21,21,21-pentafluoro-17-hydroxy-7-[10-(phenylsulfinyl)decyl]-, (7.alpha.,17.alpha.)- (9CI) (CA INDEX NAME)

RN 278603-98-8 HCAPLUS

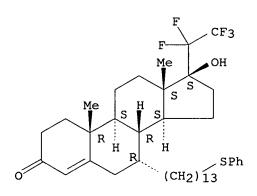
CN Pregn-4-ene-7-tetradecanenitrile, 20,20,21,21,21-pentafluoro-17-hydroxy-3-oxo-, (7.alpha.,17.alpha.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 278604-00-5 HCAPLUS

CN Pregn-4-en-3-one, 20,20,21,21,21-pentafluoro-17-hydroxy-7-[13-(phenylthio)tridecyl]-, (7.alpha.,17.alpha.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 278604-01-6 HCAPLUS

CN Pregn-4-en-3-one, 20,20,21,21,21-pentafluoro-17-hydroxy-7-[13-[(3-methylphenyl)thio]tridecyl]-, (7.alpha.,17.alpha.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 278604-02-7 HCAPLUS

CN Pregn-4-en-3-one, 20,20,21,21,21-pentafluoro-17-hydroxy-7-[13-(2-pyridinylthio)tridecyl]-, (7.alpha.,17.alpha.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 278604-03-8 HCAPLUS

CN Pregn-4-en-3-one, 20,20,21,21,21-pentafluoro-17-hydroxy-7-[13-(2-pyrimidinylthio)tridecyl]-, (7.alpha.,17.alpha.)- (9CI) (CA INDEX NAME)

RN 278604-04-9 HCAPLUS

CN Pregn-4-en-3-one, 20,20,21,21,21-pentafluoro-17-hydroxy-7-[13-[(1-methyl-1H-imidazol-2-yl)thio]tridecyl]-, (7.alpha.,17.alpha.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 278604-05-0 HCAPLUS

CN Pregn-4-en-3-one, 7-[13-(2-benzothiazolylthio)tridecyl]-20,20,21,21,21-pentafluoro-17-hydroxy-, (7.alpha.,17.alpha.)- (9CI) (CA INDEX NAME)

RN 278604-06-1 HCAPLUS

CN Pregn-4-en-3-one, 7-[13-[(6-ethoxy-2-benzothiazolyl)thio]tridecyl]-20,20,21,21,21-pentafluoro-17-hydroxy-, (7.alpha.,17.alpha.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 278604-07-2 HCAPLUS

CN Pregn-4-en-3-one, 20,20,21,21,21-pentafluoro-17-hydroxy-7-[13-(2-thiazolylthio)tridecyl]-, (7.alpha.,17.alpha.)- (9CI) (CA INDEX NAME)

RN 278604-08-3 HCAPLUS

CN Pregn-4-en-3-one, 20,20,21,21,21-pentafluoro-17-hydroxy-7-[13-[(4-methylphenyl)sulfonyl]tridecyl]-, (7.alpha.,17.alpha.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 278604-13-0 HCAPLUS

CN Pregn-4-en-3-one, 20,20,21,21,21-pentafluoro-17-hydroxy-7-[6-(phenylthio)hexyl]-, (7.alpha.,17.alpha.)- (9CI) (CA INDEX NAME)

RN 278604-14-1 HCAPLUS

CN Pregn-4-en-3-one, 20,20,21,21,21-pentafluoro-17-hydroxy-7-[6-(phenylsulfonyl)hexyl]-, (7.alpha.,17.alpha.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 278604-15-2 HCAPLUS

CN Pregn-4-en-3-one, 20,20,21,21,21-pentafluoro-17-hydroxy-7-[6-(2-pyridinylthio)hexyl]-, (7.alpha.,17.alpha.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 278604-16-3 HCAPLUS

CN Pregn-4-en-3-one, 20,20,21,21,21-pentafluoro-17-hydroxy-7-[6-(2-pyrimidinylthio)hexyl]-, (7.alpha.,17.alpha.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 278604-17-4 HCAPLUS

CN Pregn-4-en-3-one, 7-[6-[(4,6-dimethyl-2-pyrimidinyl)thio]hexyl]-20,20,21,21,21-pentafluoro-17-hydroxy-, (7.alpha.,17.alpha.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 278604-18-5 HCAPLUS

CN Pregn-4-en-3-one, 20,20,21,21,21-pentafluoro-17-hydroxy-7-[6-[(1-methyl-1H-imidazol-2-yl)thio]hexyl]-, (7.alpha.,17.alpha.)- (9CI) (CA INDEX NAME)

RN 278604-19-6 HCAPLUS

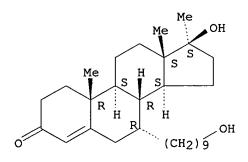
CN Pregn-4-en-3-one, 20,20,21,21,21-pentafluoro-17-hydroxy-7-[6-(2-thiazolylthio)hexyl]-, (7.alpha.,17.alpha.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 278604-29-8 HCAPLUS

CN Androst-4-en-3-one, 17-hydroxy-7-(9-hydroxynonyl)-17-methyl-, (7.alpha., 17.beta.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 278604-34-5 HCAPLUS

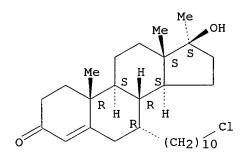
CN Androst-4-en-3-one, 7-(7-bromoheptyl)-17-hydroxy-17-methyl-, (7.alpha.,17.beta.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 278604-37-8 HCAPLUS

CN Androst-4-en-3-one, 7-(10-chlorodecyl)-17-hydroxy-17-methyl-, (7.alpha., 17.beta.)- (9CI) (CA INDEX NAME)

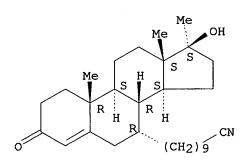
Absolute stereochemistry.



RN 278604-44-7 HCAPLUS

CN Androst-4-ene-7-decanenitrile, 17-hydroxy-17-methyl-3-oxo-, (7.alpha., 17.beta.) - (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 278604-45-8 HCAPLUS

CN Androst-4-en-3-one, 17-hydroxy-17-methyl-7-[9-[(4,4,5,5,5-pentafluoropentyl)thio]nonyl]-, (7.alpha.,17.beta.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 278604-47-0 HCAPLUS

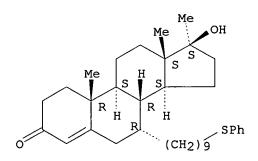
CN Androst-4-en-3-one, 17-hydroxy-17-methyl-7-[9-(pentylthio)nonyl]-, (7.alpha., 17.beta.) - (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 278604-48-1 HCAPLUS

CN Androst-4-en-3-one, 17-hydroxy-17-methyl-7-[9-(phenylthio)nonyl]-, (7.alpha., 17.beta.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 278604-49-2 HCAPLUS

CN Pentanoic acid, 5-[[9-[(7.alpha.,17.beta.)-17-hydroxy-17-methyl-3-oxoandrost-4-en-7-yl]nonyl]thio]-, methyl ester (9CI) (CA INDEX NAME)

RN 278604-50-5 HCAPLUS

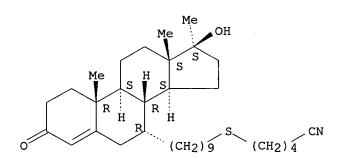
CN Androst-4-en-3-one, 7-[9-[(5-chloropentyl)thio]nonyl]-17-hydroxy-17-methyl-, (7.alpha., 17.beta.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 278604-51-6 HCAPLUS

CN Pentanenitrile, 5-[[9-[(7.alpha.,17.beta.)-17-hydroxy-17-methyl-3-oxoandrost-4-en-7-yl]nonyl]thio]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 278604-53-8 HCAPLUS

CN Androst-4-en-3-one, 7-[9-[(5-bromopentyl)thio]nonyl]-17-hydroxy-17-methyl-, (7.alpha.,17.beta.)- (9CI) (CA INDEX NAME)

RN 278604-54-9 HCAPLUS

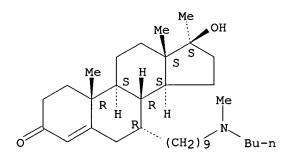
CN Androst-4-en-3-one, 7-(9-azidononyl)-17-hydroxy-17-methyl-, (7.alpha., 17.beta.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 278604-55-0 HCAPLUS

CN Androst-4-en-3-one, 7-[9-(butylmethylamino)nonyl]-17-hydroxy-17-methyl-, (7.alpha.,17.beta.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 278604-56-1 HCAPLUS

CN Androst-4-en-3-one, 7-[7-(acetylthio)heptyl]-17-hydroxy-17-methyl-, (7.alpha., 17.beta.)- (9CI) (CA INDEX NAME)

RN 278604-58-3 HCAPLUS

CN Androst-4-en-3-one, 7-[7-(butylmethylamino)heptyl]-17-hydroxy-17-methyl-, (7.alpha.,17.beta.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 278604-59-4 HCAPLUS

CN Pentanamide, N-[7-[(7.alpha.,17.beta.)-17-hydroxy-17-methyl-3-oxoandrost-4-en-7-yl]heptyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 278604-61-8 HCAPLUS

CN Androst-4-en-3-one, 7-(7-azidoheptyl)-17-hydroxy-17-methyl-, (7.alpha.,17.beta.)- (9CI) (CA INDEX NAME)

RN 278604-62-9 HCAPLUS

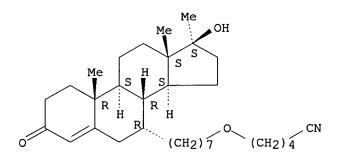
CN Methanesulfonamide, N-[7-[(7.alpha.,17.beta.)-17-hydroxy-17-methyl-3-oxoandrost-4-en-7-yl]heptyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 278604-63-0 HCAPLUS

CN Pentanenitrile, 5-[[7-[(7.alpha.,17.beta.)-17-hydroxy-17-methyl-3-oxoandrost-4-en-7-yl]heptyl]oxy]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 278604-64-1 HCAPLUS

CN Androst-4-en-3-one, 17-hydroxy-7-[7-(4-methoxybutoxy)heptyl]-17-methyl-, (7.alpha., 17.beta.)- (9CI) (CA INDEX NAME)

RN 278604-65-2 HCAPLUS

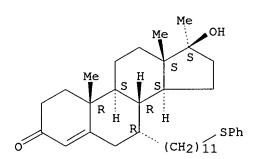
CN Androst-4-en-3-one, 7-[7-(3-butenyloxy)heptyl]-17-hydroxy-17-methyl-, (7.alpha., 17.beta.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 278604-67-4 HCAPLUS

CN Androst-4-en-3-one, 17-hydroxy-17-methyl-7-[11-(phenylthio)undecyl]-, (7.alpha.,17.beta.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 278604-68-5 HCAPLUS

CN Androst-4-en-3-one, 17-hydroxy-7-(11-methoxyundecyl)-17-methyl-, (7.alpha., 17.beta.)- (9CI) (CA INDEX NAME)

RN 278604-69-6 HCAPLUS

CN Androst-4-en-3-one, 17-hydroxy-17-methyl-7-[9-[(4,4,5,5,5-pentafluoropentyl)sulfinyl]nonyl]-, (7.alpha.,17.beta.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 278604-70-9 HCAPLUS

CN Androst-4-en-3-one, 17-hydroxy-17-methyl-7-[7-[(4,4,5,5,5-pentafluoropentyl)sulfinyl]heptyl]-, (7.alpha.,17.beta.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 278604-71-0 HCAPLUS

CN Androst-4-en-3-one, 17-hydroxy-17-methyl-7-[7-[(4,4,5,5,5-pentafluoropentyl)sulfonyl]heptyl]-, (7.alpha.,17.beta.)- (9CI) (CA INDEX NAME)

RN 278604-72-1 HCAPLUS

CN Androst-4-en-3-one, 17-hydroxy-17-methyl-7-[11-[(4,4,5,5,5-pentafluoropentyl)sulfinyl]undecyl]-, (7.alpha.,17.beta.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 278604-73-2 HCAPLUS

CN Androst-4-en-3-one, 17-hydroxy-17-methyl-7-[11-[(4,4,5,5,5-pentafluoropentyl)sulfonyl]undecyl]-, (7.alpha.,17.beta.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

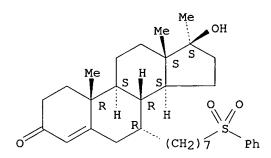
RN 278604-74-3 HCAPLUS

CN Androst-4-en-3-one, 17-hydroxy-17-methyl-7-[7-(phenylsulfinyl)heptyl]-, (7.alpha., 17.beta.)- (9CI) (CA INDEX NAME)

RN 278604-75-4 HCAPLUS

CN Androst-4-en-3-one, 17-hydroxy-17-methyl-7-[7-(phenylsulfonyl)heptyl]-, (7.alpha., 17.beta.) - (9CI) (CA INDEX NAME)

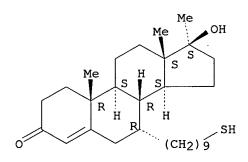
Absolute stereochemistry.



RN 278604-76-5 HCAPLUS

CN Androst-4-en-3-one, 17-hydroxy-7-(9-mercaptononyl)-17-methyl-, (7.alpha.,17.beta.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 278604-77-6 HCAPLUS

CN Androst-4-ene-7-heptanoic acid, 17-hydroxy-17-methyl-3-oxo-, (7.alpha.,17.beta.)- (9CI) (CA INDEX NAME)

RN 278604-78-7 HCAPLUS

CN Androst-4-ene-7-heptanamide, N-butyl-17-hydroxy-N,17-dimethyl-3-oxo-, (7.alpha.,17.beta.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 278604-81-2 HCAPLUS

CN Androst-4-ene-7-nonanamide, N-butyl-17-hydroxy-N,17-dimethyl-3-oxo-, (7.alpha.,17.beta.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 278604-82-3 HCAPLUS

CN Androst-4-ene-7-undecanoic acid, 17-(acetyloxy)-17-methyl-3-oxo-, (7.alpha.,17.beta.)- (9CI) (CA INDEX NAME)

RN 278604-83-4 HCAPLUS

CN Androst-4-ene-7-undecanamide, 17-(acetyloxy)-N-butyl-N,17-dimethyl-3-oxo-, (7.alpha.,17.beta.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 278604-84-5 HCAPLUS

CN Androst-4-ene-7-undecanamide, N-butyl-17-hydroxy-N,17-dimethyl-3-oxo-, (7.alpha.,17.beta.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 278604-85-6 HCAPLUS

CN Propanedioic acid, [9-[(7.alpha.,17.beta.)-17-hydroxy-17-methyl-3-oxoandrost-4-en-7-yl]nonyl]-, diethyl ester (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 278604-86-7 HCAPLUS

CN Androst-4-ene-7-undecanoic acid, .alpha.-acetyl-17-hydroxy-17-methyl-3-oxo, ethyl ester, (7.alpha.,17.beta.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 278604-87-8 HCAPLUS

CN Androst-4-en-3-one, 17-hydroxy-17-methyl-7-[9-(pentyloxy)nonyl]-, (7.alpha., 17.beta.)- (9CI) (CA INDEX NAME)

RN 278604-88-9 HCAPLUS

CN Pentanamide, N-[9-[(7.alpha.,17.beta.)-17-hydroxy-17-methyl-3-oxoandrost-4-en-7-yl]nonyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 278604-89-0 HCAPLUS

CN Methanesulfonamide, N-[9-[(7.alpha.,17.beta.)-17-hydroxy-17-methyl-3-oxoandrost-4-en-7-yl]nonyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 278604-90-3 HCAPLUS

CN Androst-4-en-3-one, 17-(acetyloxy)-7-(9-chlorononyl)-6-hydroxy-17-methyl-, (6.beta.,7.alpha.,17.beta.)- (9CI) (CA INDEX NAME)

RN 278604-91-4 HCAPLUS

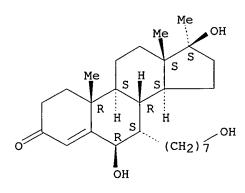
CN Androst-4-en-3-one, 17-(acetyloxy)-6-hydroxy-7-(9-hydroxynonyl)-17-methyl-, (6.beta.,7.alpha.,17.beta.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 278604-92-5 HCAPLUS

CN Androst-4-en-3-one, 6,17-dihydroxy-7-(7-hydroxyheptyl)-17-methyl-, (6.beta.,7.alpha.,17.beta.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

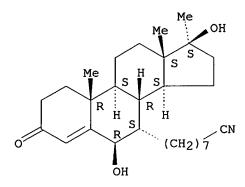


RN 278604-93-6 HCAPLUS

CN Androst-4-ene-7-octanenitrile, 6,17-dihydroxy-17-methyl-3-oxo-,

(6.beta., 7.alpha., 17.beta.) - (9CI) (CA INDEX NAME)

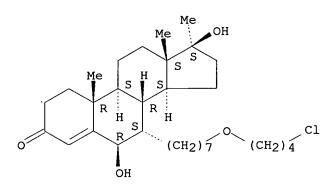
Absolute stereochemistry.



RN 278604-94-7 HCAPLUS

CN Androst-4-en-3-one, 7-[7-(4-chlorobutoxy)heptyl]-6,17-dihydroxy-17-methyl-, (6.beta.,7.alpha.,17.beta.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L4 ANSWER 2 OF 9 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 2000:178509 HCAPLUS

DOCUMENT NUMBER: 132:334660

TITLE: Concepts for the syntheses of biotinylated steroids.

Part I: Testosterone derivatives as immunochemical

probes

AUTHOR(S): Hauptmann, Hagen; Paulus, Birgit; Kaiser, Thomas;

Herdtweck, Eberhardt; Huber, Erasmus; Luppa, Peter B.

CORPORATE SOURCE: Institute for Organic Chemistry, Universitaet

Regensburg, Regensburg, D-93053, Germany

SOURCE: Bioconjugate Chemistry (2000), 11(2), 239-252

CODEN: BCCHES; ISSN: 1043-1802

PUBLISHER: American Chemical Society

DOCUMENT TYPE: Journal LANGUAGE: English

OTHER SOURCE(S): CASREACT 132:334660

AB Synthetic strategies for the biotinylation of testosterone (T) at positions 3, 7.alpha., 17.alpha., and 19 are described. These T probes

are able to mimic ligand binding and may provide for a better understanding of the biospecific interaction with steroid-binding proteins such as the androgen receptor, anti-steroid antibodies, or steroid-binding serum globulins. For the 7.alpha.- and 17.alpha.-derivs., biotinyl-N-hydroxy-succinimide esters with different types of spacer chains were used. The 3-biotin hydrazone deriv. was produced using N-(.epsilon.-biotinyl)-caproyl hydrazide, whereas for the 19-biotinylation, a biotinyl-1-N-diamino-3,6-dioxaoctane-amide was applied. Key reaction for the biotinylation at position 3 is the oximation of the 3-oxo function. The 17.alpha.-position is accessible by the reaction of the 3-protected 4-androsten-17-epoxide with oxygen in the .beta.-position, followed by nucleophilic ring opening with cyanide which provides the 17.alpha.-cyanomethyl deriv. The key step is the regioselective ketal protection of the 3-oxo function of androst-4-ene-3,17-dione using a stannoxane catalyst. An alternative pathway for the insertion of biotin at the 19-position was established by the synthesis of 17.beta.-hydroxy-androst-4-en-3-one-19-yl carboxymethyl ether. After activation by the carbodiimide method, the compd. reacts with aminoterminal biotin derivs. The copper(I)-catalyzed 1,6 Michael addn. of 17-acetoxy-6,7-dehydro-T leads to 7.alpha.-derivs. by use of .omega.-silyl protected hydroxylalkyl-modified Grignard reagents. A functional group interconversion using the Staudinger reaction transforms the azide function into a primary .omega.-amino group. The abs. configurations of the different biotinylated derivs. were investigated by 1H NMR studies. For the 7.alpha.-biotinylated T series, addnl., an X-ray anal. proved the axial position of the spacer group. This results in a vertical orientation of the biotin moiety toward the .alpha.-face of the planar tetracyclic backbone. Thus, a negligible alteration of the original structure of the upper .beta.-face offers the feasibility of applying the 7.alpha.-derivs. as optimal immunochem. tracers in competitive immunoassays. Biotinylated T derivs. should be also suitable for ligand-binding studies to the androgen receptor or to sex hormone-binding globulin. 134187-54-5P 175479-27-3P 175479-29-5P

RN 175479-27-3 HCAPLUS

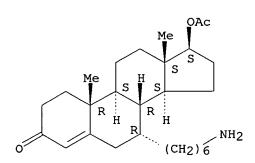
CN Androst-4-en-3-one, 17-(acetyloxy)-7-(6-hydroxyhexyl)-, (7.alpha., 17.beta.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 175479-29-5 HCAPLUS

CN Androst-4-en-3-one, 17-(acetyloxy)-7-(6-aminohexyl)-, (7.alpha.,17.beta.)-(9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 175479-30-8 HCAPLUS

CN Androst-4-en-3-one, 7-(6-aminohexyl)-17-hydroxy-, (7.alpha.,17.beta.)- (9CI) (CA INDEX NAME)

RN 267898-40-8 HCAPLUS

CN Androst-4-en-3-one, 17-(acetyloxy)-7-[6-[[(1,1-dimethylethyl)dimethylsilyl]oxy]hexyl]-, (17.beta.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 267898-41-9 HCAPLUS

CN Androst-4-en-3-one, 17-(acetyloxy)-7-[11-[[(1,1-dimethylethyl)dimethylsilyl]oxy]undecyl]-, (7.alpha.,17.beta.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 267898-43-1 HCAPLUS

CN Androst-4-en-3-one, 17-(acetyloxy)-7-[6-[[6-[[(1,1-dimethylethyl)dimethylsilyl]oxy]hexyl]oxy]hexyl]-, (17.beta.)- (9CI) (CA

INDEX NAME)

Absolute stereochemistry.

RN 267898-45-3 HCAPLUS

CN Androst-4-en-3-one, 17-(acetyloxy)-7-[6-[(6-hydroxyhexyl)oxy]hexyl]-, (7.alpha., 17.beta.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 267898-47-5 HCAPLUS

CN Androst-4-en-3-one, 17-(acetyloxy)-7-[6-[(methylsulfonyl)oxy]hexyl]-, (7.alpha., 17.beta.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 267898-48-6 HCAPLUS

CN Androst-4-en-3-one, 17-(acetyloxy)-7-[11-[(methylsulfonyl)oxy]undecyl]-, (7.alpha., 17.beta.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 267898-50-0 HCAPLUS

CN Androst-4-en-3-one, 17-(acetyloxy)-7-[6-[[6-[(methylsulfonyl)oxy]hexyl]oxy]hexyl]-, (7.alpha.,17.beta.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 267898-53-3 HCAPLUS
CN Androst-4-en-3-one, 17-(acetyloxy)-7-(11-azidoundecyl)-,
(7.alpha.,17.beta.)- (9CI) (CA INDEX NAME)

RN 267898-55-5 HCAPLUS

CN Androst-4-en-3-one, 17-(acetyloxy)-7-[6-[(6-azidohexyl)oxy]hexyl]-, (7.alpha., 17.beta.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 267898-57-7 HCAPLUS

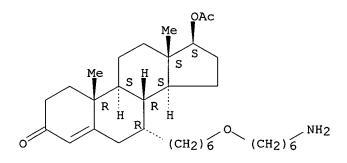
CN Androst-4-en-3-one, 17-(acetyloxy)-7-(11-aminoundecyl)-, (7.alpha., 17.beta.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 267898-59-9 HCAPLUS

CN Androst-4-en-3-one, 17-(acetyloxy)-7-[6-[(6-aminohexyl)oxy]hexyl]-, (7.alpha., 17.beta.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 267898-61-3 HCAPLUS

CN Androst-4-en-3-one, 7-(11-aminoundecyl)-17-hydroxy-, (7.alpha.,17.beta.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 267898-63-5 HCAPLUS
CN Androst-4-en-3-one, 7-[6-[(6-aminohexyl)oxy]hexyl]-17-hydroxy-,
(7.alpha.,17.beta.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

(3aS, 4S, 6aR) - (9CI) (CA INDEX NAME)

RN 267898-52-2 HCAPLUS

CN Androst-4-en-3-one, 17-(acetyloxy)-7-(6-azidohexyl)-, (7.alpha.,17.beta.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 267898-64-6 HCAPLUS

CN 1H-Thieno[3,4-d]imidazole-4-pentanamide, hexahydro-N-[6-[[6-[(7.alpha.,17.beta.)-17-hydroxy-3-oxoandrost-4-en-7-yl]hexyl]oxy]hexyl]-2-oxo-, (3aS,4S,6aR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A

PAGE 1-B

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RN 267898-66-8 HCAPLUS

CN Octanediamide, N-[2-[2-[2-[[5-[(3aS,4S,6aR)-hexahydro-2-oxo-1H-thieno[3,4-d]imidazol-4-yl]-1-oxopentyl]amino]ethoxy]ethoxy]ethyl]-N'-[6-[[6-[(7.alpha.,17.beta.)-17-hydroxy-3-oxoandrost-4-en-7-yl]hexyl]oxy]hexyl]-(9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A

PAGE 1-B

PAGE 1-B

RN 267898-67-9 HCAPLUS

CN Octanediamide, N-[2-[2-[2-[[5-[(3aS,4S,6aR)-hexahydro-2-oxo-1H-thieno[3,4-d]imidazol-4-yl]-1-oxopentyl]amino]ethoxy]ethoxy]ethyl]-N'-[6-[(7.alpha.,17.beta.)-17-hydroxy-3-oxoandrost-4-en-7-yl]hexyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-B

RN 267898-68-0 HCAPLUS

CN Octanediamide, N-[2-[2-[5-[(3aS,4S,6aR)-hexahydro-2-oxo-1H-thieno[3,4-d]imidazol-4-yl]-1-oxopentyl]amino]ethoxy]ethoxy]ethyl]-N'-[11-

[(7.alpha.,17.beta.)-17-hydroxy-3-oxoandrost-4-en-7-yl]undecyl]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

PAGE 1-A

PAGE 1-B

RN 267898-86-2 HCAPLUS

CN Androst-4-en-3-one, 17-(acetyloxy)-7-[11-[[(1,1-dimethylethyl)dimethylsilyl]oxy]undecyl]-, (7.beta.,17.beta.)- (9CI) (CA INDEX NAME)

REFERENCE COUNT: 77 THERE ARE 77 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 3 OF 9 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1998:26600 HCAPLUS

DOCUMENT NUMBER: 128:136570

TITLE: 7.alpha.-Biotinylated testosterone derivatives as

tracers for a competitive chemiluminescence

immunoassay of testosterone in serum

AUTHOR(S): Luppa, Peter; Bruckner, Christine; Schwab, Ingrid;

Hauck, Sabine; Schmidmayr, Stefan; Birkmayer, Christian; Paulus, Birgit; Hauptmann, Hagen

CORPORATE SOURCE: Institute of Clinical Chemistry and Pathobiochemistry,

Klinikum rechts der Isar, Technical University Munich,

Munich, D-81675, Germany

SOURCE: Clinical Chemistry (Washington, D. C.) (1997), 43(12),

2345-2352

CODEN: CLCHAU; ISSN: 0009-9147

PUBLISHER: American Association for Clinical Chemistry

DOCUMENT TYPE: Journal LANGUAGE: English

Ring core-biotinylated testosterone tracers were synthesized with bridges of three different lengths connecting the biotin moiety to the steroid core (7.alpha.-Cn-Bio-T, n = 3, 6, or 11). Together with a position 7-specific polyclonal anti-testosterone antibody, we used the 7.alpha.-C11-Bio-T tracer to develop a novel, labeled-hapten competitive immunoassay for total testosterone in serum. (The C3 and C6 tracers proved to be not suitable for analogous immunoassays.). Enhanced chemiluminescence signal was generated by use of a second immobilized antibody and a streptavidin-horseradish peroxidase conjugate. The measuring range of the assay is 0.2-20.0 nmol/L, linearity of serial dilns. can be demonstrated, the lower detection limit is 0.125 nmol/L, and the interassay imprecisions are 13-16%. Accuracy detns. in mass spectrometry-controlled ref. specimens showed a mean recovery of 95%. In addn., the assay shows low cross-reactivities, demonstrating the favorable specificity of the combination of a "nearly native" tracer with a position analog antibody. The optimized steric structure and the long spacer arm of the biotinylated testosterone tracer make this chemiluminescence assay well-suited for measuring total testosterone concn. in serum.

IT 175479-31-9P 202285-12-9P

RL: ARG (Analytical reagent use); SPN (Synthetic preparation); ANST (Analytical study); PREP (Preparation); USES (Uses)

(7.alpha.-biotinylated testosterone derivs. as tracers for a competitive chemiluminescence immunoassay of testosterone in serum)

RN 175479-31-9 HCAPLUS

CN 1H-Thieno[3,4-d]imidazole-4-pentanamide, hexahydro-N-[6-[(7.alpha.,17.beta.)-17-hydroxy-3-oxoandrost-4-en-7-y1]hexy1]-2-oxo-, [3aS-(3a.alpha.,4.beta.,6a.alpha.)]- (9CI) (CA INDEX NAME)

RN 202285-12-9 HCAPLUS

CN 1H-Thieno[3,4-d]imidazole-4-pentanamide, hexahydro-N-[11-[(7.alpha.,17.beta.)-17-hydroxy-3-oxoandrost-4-en-7-yl]undecyl]-2-oxo-, (3aS,4S,6aR)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

REFERENCE COUNT:

THERE ARE 24 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L4 ANSWER 4 OF 9 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

1996:280333 HCAPLUS

DOCUMENT NUMBER:

124:307782

TITLE:

Synthesis of 17.beta.-Hydroxyandrost-4-en-3-one-

7.alpha.-(Biotinyl-6-N-hexylamide), a Conjugate useful

for Affinity Chromatography and for Testosterone

Immunoassays

AUTHOR(S):

Luppa, Peter; Hauck, Sabine; Schwab, Ingrid;

Birkmayer, Christian; Hauptmann, Hagen

CORPORATE SOURCE:

Institute for Clinical Chemistry and

Pathobiochemistry, Technical University Munich,

Munich, D-81675, Germany

SOURCE:

Bioconjugate Chemistry (1996), 7(3), 332-337

CODEN: BCCHES; ISSN: 1043-1802

PUBLISHER:

American Chemical Society

DOCUMENT TYPE: Journal LANGUAGE: English

The authors describe the synthesis of 17.beta.-hydroxyandrost-4-en-3-one-7.alpha.-(biotinyl-6-N-hexylamide) from 17.beta.-hydroxyandrost-4-en-3-one (testosterone) via copper-catalyzed 1,6 Michael addn. of a 6-(tert-butyldimethylsilyloxyhexyl) chain to 6-dehydrotestosterone 17.beta.-acetate. After chromatog. sepn. of the 7.alpha.-isomer from the .alpha./.beta. mixt. and cleavage of the silyl ether, the alc. was oxidized to the 6-hexanal side chain and then subjected to reductive amination. The resulting primary amine is easily biotinylated using biotinyl-N-hydroxysuccinimide ester. The overall yield for the epimeric 7.alpha.-end product was 30%. The abs. configurations of the epimers were investigated by 1H NMR studies by the nuclear Overhauser effect. The authors introduced a biotin label to the testosterone mol. at ring position 7 in compliance with Landsteiner's principle, which states that antibody specificity is directed primarily at that portion of the hapten furthest from the functional group linking it to the carrier protein. Thus, this negligible alteration in comparison to the structure of the resp. testosterone hapten used to elicit antibodies offers the feasibility of applying the testosterone deriv. as an optimal immunoadsorbent in affinity chromatog. The 7.alpha.-biotinylated testosterone was used to obtain active antitestosterone antibodies from a specific antiserum by affinity chromatog. This was achieved by attaching the biotinylated testosterone to agarose-coupled streptavidin beads. Accordingly, a 3H-testosterone-binding test demonstrated a 20-fold increase in affinity of the purified antibody to the steroid compared to the original antiserum, and a recovery of >80% could be obtained. The antitestosterone antibody, obtained by that method, is an effective component for use in a competitive immunoassay for testosterone in human sera. An assay configuration is conceivable with the same 7.alpha.-biotinylated testosterone employed as tracer in combination with a streptavidin-linked reporter enzyme.

IT 175479-24-0P 175479-25-1P 175479-27-3P 175479-28-4P 175479-29-5P 175479-30-8P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(synthesis of 17.beta.-hydroxyandrost-4-en-3-one-7.alpha.-(biotinyl-6-N-hexylamide), a conjugate useful for affinity chromatog. and for testosterone immunoassays)

RN 175479-24-0 HCAPLUS

CN Androst-4-en-3-one, 17-(acetyloxy)-7-[6-[[(1,1-dimethylethyl)dimethylsilyl]oxy]hexyl]-, (7.alpha.,17.beta.)- (9CI) (CA INDEX NAME)

RN 175479-25-1 HCAPLUS

CN Androst-4-en-3-one, 17-(acetyloxy)-7-[6-[[(1,1-dimethylethyl)dimethylsilyl]oxy]hexyl]-, (7.beta.,17.beta.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 175479-27-3 HCAPLUS
CN Androst-4-en-3-one, 17-(acetyloxy)-7-(6-hydroxyhexyl)-,
(7.alpha.,17.beta.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 175479-28-4 HCAPLUS CN Androst-4-ene-7-hexanal, 17-(acetyloxy)-3-oxo-, (7.alpha.,17.beta.)- (9CI) (CA INDEX NAME) Absolute stereochemistry.

RN 175479-29-5 HCAPLUS

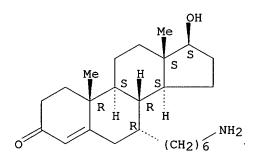
CN Androst-4-en-3-one, 17-(acetyloxy)-7-(6-aminohexyl)-, (7.alpha.,17.beta.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 175479-30-8 HCAPLUS

CN Androst-4-en-3-one, 7-(6-aminohexyl)-17-hydroxy-, (7.alpha.,17.beta.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



IT 175479-31-9P

RL: SPN (Synthetic preparation); PREP (Preparation)

(synthesis of 17.beta.-hydroxyandrost-4-en-3-one-7.alpha.-(biotinyl-6-N-

hexylamide), a conjugate useful for affinity chromatog. and for testosterone immunoassays)

RN 175479-31-9 HCAPLUS

CN 1H-Thieno[3,4-d]imidazole-4-pentanamide, hexahydro-N-[6-

[(7.alpha.,17.beta.)-17-hydroxy-3-oxoandrost-4-en-7-yl]hexyl]-2-oxo-, [3aS-(3a.alpha.,4.beta.,6a.alpha.)]- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

L4 ANSWER 5 OF 9 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1991:574681 HCAPLUS

DOCUMENT NUMBER: 115:174681

TITLE: Preparation of steroid enzyme inhibitors for treatment

of benign prostatic hyperplasia

INVENTOR(S):
Labrie, Fernand

INVENTOR(5): Labite, remaind

PATENT ASSIGNEE(S): Endorecherche Inc., Can. SOURCE: PCT Int. Appl., 75 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent

LANGUAGE: English

FAMILY ACC. NUM. COUNT: 8

PATENT INFORMATION:

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AB A method of preventing and/or treating benign prostatic hyperplasia (BPH) in humans or warm-blooded animals comprises orally or parenterally administering .gtoreq.2 compds. selected from a 5.alpha.-reductase inhibitor, an antiestrogen, an aromatase inhibitor, a 17.beta.-hydroxy steroid dehydrogenase (17.beta.-HSD) inhibitor, and further an antiandrogen and an LH-RH agonist or antagonist. A 5-reductase inhibitor is 4-MA or MK-906; an antiestrogen is (Z)-2-[4-(1,2-diphenyl-1-butenyl)phenoxy]-N,N-dimethylethanamine, EM 139 (prepn. given), EM 142, etc.; an aromatase inhibitor is FCE 24304 or 4-hydroxyandrostenedione; and an antiandrogen is flutamide. EM 139 was prepd. starting from 19-nortestosterone by protection, addn. with undecanol by Grignard reaction, dehydrogenation and deprotection, oxidn. and amidation with butylmethylamine, enol esterifying, and chlorination.

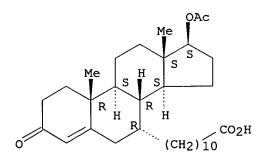
IT 91454-67-0P 134187-54-5P 134187-55-6P 134187-56-7P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(prepn. and reaction of, in prepn. of prostatic hyperplasia drug)

RN 91454-67-0 HCAPLUS

CN Androst-4-ene-7-undecanoic acid, 17-(acetyloxy)-3-oxo-, (7.alpha.,17.beta.)- (9CI) (CA INDEX NAME)



RN 134187-54-5 HCAPLUS

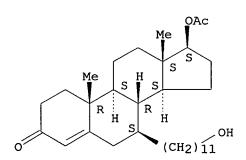
CN Androst-4-en-3-one, 17-(acetyloxy)-7-(11-hydroxyundecyl)-, (7.alpha.,17.beta.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 134187-55-6 HCAPLUS

CN Androst-4-en-3-one, 17-(acetyloxy)-7-(11-hydroxyundecyl)-, (7.beta.,17.beta.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 134187-56-7 HCAPLUS

CN Androst-4-ene-7-undecanamide, 17-(acetyloxy)-N-butyl-N-methyl-3-oxo-, (7.alpha.,17.beta.)- (9CI) (CA INDEX NAME)

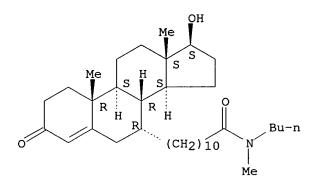
IT 134187-57-8P

RL: SPN (Synthetic preparation); PREP (Preparation) (prepn. of, for prostatic hyperplasia treatment)

RN 134187-57-8 HCAPLUS

CN Androst-4-ene-7-undecanamide, N-butyl-17-hydroxy-N-methyl-3-oxo-, (7.alpha., 17.beta.) - (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L4 ANSWER 6 OF 9 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1991:485452 HCAPLUS

DOCUMENT NUMBER: 115:85452

TITLE: Preparation of steroidal enzyme inhibitors for

treatment of prostate cancer

INVENTOR(S):
Labrie, Fernand

PATENT ASSIGNEE(S): Endorecherche Inc., Can. SOURCE: PCT Int. Appl., 102 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 8

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE

WO 9100733 A1 19910124 WO 1990-CA212 19900705

W: AT, AU, BB, BG, BR, CA, CH, DE, DK, ES, FI, GB, HU, JP, KP, KR, LK, LU, MC, MG, MW, NL, NO, RO, SD, SE, SU

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OTHER SOURCE(S): MARPAT 115:85452

AB A method of treatment of androgen-related diseases (e.g. prostate cancer) in male humans or warm-blooded animals comprises administering novel antiandrogens and/or novel sex steroid biosynthesis inhibitors as part of a combination therapy. Sex steroid biosynthesis inhibitors, esp. those capable of inhibiting conversion of dehydroepiandrosterone or 4-androstenedione to natural sex steroids (and testosterone into dihydrotestosterone) in peripheral tissues, are used in combination with antiandrogens usually after blockade of testicular hormonal secretions. Antiestrogens can also be part of the combination therapy. Pharmaceutical compns. and 2-, 3-, 4-, and 5-component kits are useful for such combination treatment. EM139 (I) was prepd. starting from 19-nortestosterone by protection, addn. to undecanol by Grignard reaction, dehydrogenation and deprotection, oxidn. and amidation with BuNHMe, acetylenolation, and chlorination.

IT 91454-67-0P 134187-54-5P 134187-55-6P 134187-56-7P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(prepn. and reaction of, in prepn. of drug for prostate cancer treatment)

RN 91454-67-0 HCAPLUS

CN Androst-4-ene-7-undecanoic acid, 17-(acetyloxy)-3-oxo-, (7.alpha.,17.beta.)- (9CI) (CA INDEX NAME)

RN 134187-54-5 HCAPLUS

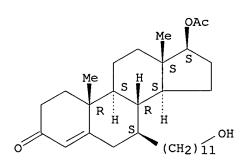
CN Androst-4-en-3-one, 17-(acetyloxy)-7-(11-hydroxyundecyl)-, (7.alpha.,17.beta.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 134187-55-6 HCAPLUS

CN Androst-4-en-3-one, 17-(acetyloxy)-7-(11-hydroxyundecyl)-, (7.beta.,17.beta.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 134187-56-7 HCAPLUS

CN Androst-4-ene-7-undecanamide, 17-(acetyloxy)-N-butyl-N-methyl-3-oxo-, (7.alpha.,17.beta.)- (9CI) (CA INDEX NAME)

IT 134187-57-8P, EM 101

RL: SPN (Synthetic preparation); PREP (Preparation)

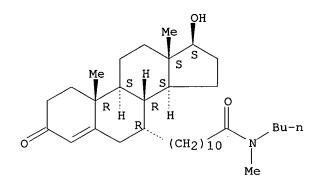
(prepn. of, for prostate cancer treatment)

134187-57-8 HCAPLUS RN

Androst-4-ene-7-undecanamide, N-butyl-17-hydroxy-N-methyl-3-oxo-, CN

(7.alpha., 17.beta.) - (9CI) (CA INDEX NAME)

Absolute stereochemistry.



ANSWER 7 OF 9 HCAPLUS COPYRIGHT 2004 ACS on STN

1991:472016 HCAPLUS ACCESSION NUMBER:

115:72016 DOCUMENT NUMBER:

Preparation of .omega.-(androstenonyl)alkynoates and TITLE:

analogs as antiandrogenic agents

Labrie, Fernand; Merand, Yves INVENTOR(S):

PATENT ASSIGNEE(S): Endorecherche Inc., Can.

SOURCE: PCT Int. Appl., 73 pp.

CODEN: PIXXD2

Patent DOCUMENT TYPE:

LANGUAGE: English

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

KIND DATE APPLICATION NO. DATE PATENT NO. _____ 19910124 19900705 WO 1990-CA211 WO 9100732 **A**1

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LK, LU, MC, MG, MW, NL, NO, RO, SD, SE, SU

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PRIORITY APPLN. INFO.:
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                                         AU 1996-46606
                                                           A3 19960220
                                         AU 1997-46772
                                                           A3 19971128
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MARPAT 115:72016 OTHER SOURCE(S):

The title compds. [I; A = CH, CH2, O; B = CH, CH2, N, NH; R6-R9, R11, R12 = H, Z1m(XZ2n)xLG; R10, R13 = H, alkyl; L = alkylene, CONH, O, S, NH, CS2, etc.; G = H, alkenyl, alkynyl (un) substituted (cyclo) alkyl; LG = N-contg. heterocyclyl; X = O, S, NH, CH2, CO2, CONH, etc.; Z1, Z2 = (fluoro)alkylene, -alkenylene, -alkynylene, -phenylene; m, n = 0, 1; x = 0-6] were prepd. Thus, ethisterone was diprotected and the product treated with BuLi and I(CH2)10I to give, after deprotection, title compd. II which gave .apprx.50% inhibition of 17.beta.-hydroxysteroid dehydrogenase at .apprx.35 .mu.M in vitro.

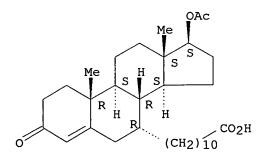
91454-67-0P 134187-54-5P 134187-55-6P IT 134187-56-7P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(prepn. and reaction of, in prepn. of antiandrogenics)

RN 91454-67-0 HCAPLUS

CN Androst-4-ene-7-undecanoic acid, 17-(acetyloxy)-3-oxo-, (7.alpha., 17.beta.) - (9CI) (CA INDEX NAME)



RN 134187-54-5 HCAPLUS

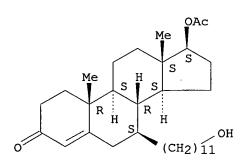
CN Androst-4-en-3-one, 17-(acetyloxy)-7-(11-hydroxyundecyl)-, (7.alpha.,17.beta.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 134187-55-6 HCAPLUS

CN Androst-4-en-3-one, 17-(acetyloxy)-7-(11-hydroxyundecyl)-, (7.beta.,17.beta.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 134187-56-7 HCAPLUS

CN Androst-4-ene-7-undecanamide, 17-(acetyloxy)-N-butyl-N-methyl-3-oxo-, (7.alpha.,17.beta.)- (9CI) (CA INDEX NAME)

IT 134187-57-8P 134187-58-9P

RL: SPN (Synthetic preparation); PREP (Preparation) (prepn. of, as antiandrogenic)

RN 134187-57-8 HCAPLUS

CN Androst-4-ene-7-undecanamide, N-butyl-17-hydroxy-N-methyl-3-oxo-, (7.alpha., 17.beta.) - (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 134187-58-9 HCAPLUS

CN Androst-4-ene-7-undecanamide, 17-(benzoyloxy)-N-butyl-N-methyl-3-oxo-, (7.alpha., 17.beta.)- (9CI) (CA INDEX NAME)

L4 ANSWER 8 OF 9 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER: 1984:486527 HCAPLUS

DOCUMENT NUMBER: 101:86527

TITLE: Synthesis and evaluation of immobilized androgens for

affinity chromatography in the purification of nuclear

androgen receptor

AUTHOR(S): De Larminat, Marie Anne; Bruchovsky, Nicholas; Rennie,

Paul S.; Lee, Sing Ping; Tertzakian, Gerald

CORPORATE SOURCE: Dep. Cancer Endocrinol., Cancer Control Agency of

British Columbia, Vancouver, BC, V5Z 3J3, Can.

SOURCE: Prostate (New York, NY, United States) (1984), 5(2),

123-40

CODEN: PRSTDS; ISSN: 0270-4137

DOCUMENT TYPE: Journal LANGUAGE: English

Seven biospecific adsorbents contg. immobilized androgens were synthesized: dihydrotestosterone-17.beta.-succinyl agarose, and both the unsubstituted and the 17.beta.-acetyl derivs. of dihydrotestosterone-7.alpha.-undecanoyl agarose, testosterone-7.alpha.-undecanoyl agarose, and 19-nortestosterone-7.alpha.-undecanoyl agarose. The retention capacities for nuclear androgen receptor were generally between 40-80% with little variation in reproducibility; the amt. of binding was greatest with dihydrotestosterone-17.beta.-succinyl agarose and dihydrotestosterone-17.beta.-acetoxy-7.alpha.-undecanoyl agarose. Rapid flow rates were obtained with all gels, and no tendency for decompn. was obsd. over a period of 1 yr. Factors that affected retention included the concn. of immobilized androgen, length of the linker arm, occupation of receptor sites, interval of contact with the gel, and temp. of incubation. Chem. dissocn. of androgens from androgen receptor complexes with $0.2\ \text{mM}$ mersalyl increased the retention of receptor by dihydrotestosterone-17.beta.-succinyl agarose. Two eluants showed promise for the dissocn. of gel-bound receptor: (1) 0.2 mM mersalyl in the presence of 1.5 mg/mL of ovalbumin; (2) 10% DMF-H2O contg. 30 .mu.M [1,2-3H]dihydrotestosterone and 0.5 M Na thiocyanate.

IT 59287-27-3D, reaction products with Affi-gel 102
91454-67-0D, reaction products with Affi-gel 102

RL: ANST (Analytical study)

(androgen receptor binding by)

RN 59287-27-3 HCAPLUS

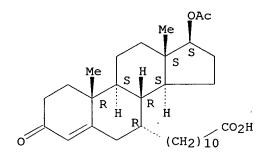
CN Androst-4-ene-7-undecanoic acid, 17-hydroxy-3-oxo-, (7.alpha.,17.beta.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 91454-67-0 HCAPLUS

CN Androst-4-ene-7-undecanoic acid, 17-(acetyloxy)-3-oxo-, (7.alpha.,17.beta.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



L4 ANSWER 9 OF 9 HCAPLUS COPYRIGHT 2004 ACS on STN

ACCESSION NUMBER:

1976:178141 HCAPLUS

DOCUMENT NUMBER:

84:178141

TITLE:

Testosterone-derived haptens and their use in

preparing antigens

INVENTOR(S):

Pierdet, Andre; Coussediere, Daniel

PATENT ASSIGNEE(S): SOURCE:

Roussel-UCLAF, Fr. Ger. Offen., 28 pp.

CODEN: GWXXBX

DOCUMENT TYPE:

Patent

LANGUAGE:

German

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
DE 2529969	A1	19760122	DE 1975-2529969	19750704
FR 2277082	A1	19760130	FR 1974-23281	19740704
SE 7507353	Α	19760105	SE 1975-7353	19750626
US 3975413	Α	19760817	US 1975-592619	19750702
BE 830987	A1	19760105	BE 1975-157970	19750703

DK 7503010	Α	19760105	DK	1975-3010	19750703
AU 7582706	A1	19770106	AU	1975-82706	19750703
ES 439100	A1	19770616	ES	1975-439100	19750703
CA 1046502	A 1	19790116	CA	1975-230658	19750703
AT 348157	В	19790212	AT	1975-5141	19750703
NL 7507994	Α	19760106	NL	1975-7994	19750704
JP 51034144	A2	19760323	JP	1975-81993	19750704
BR 7504242	Α	19760706	BR	1975-5432	19750704
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AT 7707904	Α	19791115	AT	1977-7904	19771104
AT 357277	В	19800625			
PRIORITY APPLN. INFO.:			FR 197	74-23281	19740704
			AT 197	75-5141	19750703

AB Testosterone-specific haptens were prepd. by derivitizing the parent steroid at ring positions 7 and 11. Thus, derivs. synthesized were: 7-carboxymethoxyimino-, 11.alpha.- and .beta.-hemiterephthaloyloxy-, 11.beta.-hemisuccinoyloxy-, 7.alpha.- and .beta.(I)-(.omega.-carboxy)-testosterones. The prepn. of an antigen is also described. Bovine serum albumin is conjugated to I using a std. method. Analysis (uv spectra) of the conjugate showed that the antigen contained 18% of the steroid acid (I).

IT 59287-27-3P 59287-28-4P

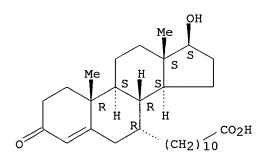
RL: PREP (Preparation)

(haptens, prepn. and use of, in antigens prepn.)

RN 59287-27-3 HCAPLUS

CN Androst-4-ene-7-undecanoic acid, 17-hydroxy-3-oxo-, (7.alpha.,17.beta.)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.



RN 59287-28-4 HCAPLUS

CN Androst-4-ene-7-undecanoic acid, 17-hydroxy-3-oxo-, (7.beta., 17.beta.)- (9CI) (CA INDEX NAME)